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| L2 | 63 | wrapper same (search adj engine) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:22 |
| L3 | 21 | wrappers! same (search adj engines!) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:27 |
| L4 | 0 | (wrapper or wrapp$4) same (componet adj object adj model) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:27 |
| L5 | 49 | (wrapper or wrapp$4) same (component adj object adj model) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:35 |
| L6 | 2 | ( (wrapper or wrapp$4) and (component adj object adj model)) same search$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:35 |
| L7 | 2 | ( (wrapper or wrapp$4) and (component adj object adj model)) same (metasearch or (meta adj search) or search$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:36 |
| L8 | 446 | ( (wrapper or wrapp$4) and (component adj object adj model)) and (metasearch or (meta adj search) or search$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:43 |
| L9 | 67 | 8 and "707"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:36 |

| | | | | | | |
|---|---|---|---|---|---|---|
| L10 | 30 | 9 and (metasearch or (meta adj search) or (search$6 adj engine)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:37 |
| L11 | 27 | 9 and (metasearch or (meta adj search) or (search$6 adj engines!)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:38 |
| L12 | 1 | 11 and (results! with (search$6 adj engines!)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:38 |
| L13 | 7 | 11 and (results! same (search$6 adj engines!)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:40 |
| L14 | 4 | 8 and (various or disparat$6 or different or vary) near9 (search adj engines!) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:43 |
| L15 | 446 | ( (wrapper or wrapp$4) and (component adj object adj model)) and (search$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:44 |
| L16 | 4 | 15 and (various or disparat$6 or different or vary) near3 (search adj engines!) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:44 |
| L17 | 16 | ( (wrapper or wrapp$4) same (component adj object adj model)) and (search$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:44 |
| L18 | 1 | 17 and (various or disparat$6 or different or vary) near3 (search adj engines!) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:44 |
| L19 | 1 | 17 and (search adj engines!) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/18 07:44 |

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**21** Searching and information extracting: Multimedia information services enabling: an architectural approach
Erik Boertjes, Willem Jonker, Jeroen Wijnands
September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval**
Full text available: pdf(599.94 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a scalable and extendable architecture consisting of the essential building blocks for multimedia information services. It provides building blocks for multimedia transport, storage, retrieval, filtering, and presentation, together with their interdependencies. After presenting the overall architecture, we focus in more detail on the 3-level modeling and querying of multimedia data. Emphasis is placed on the support for a wide variety of modeling and querying techniques in th ...

**Keywords**: information management, metadata management, multimedia search, multimedia services, platform architectures, query processing

**22** Editorial: special issue on web content mining
Bing Liu, Kevin Chen-Chuan-Chang
December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2
Full text available: pdf(178.32 KB) Additional Information: full citation, abstract, references

With the phenomenal growth of the Web, there is an everincreasing volume of data and information published in numerous Web pages. The research in Web mining aims to develop new techniques to effectively extract and mine useful knowledge or information from these Web pages [8]. Due to the heterogeneity and lack of structure of Web data, automated discovery of targeted or unexpected knowledge/information is a challenging task. It calls for novel methods that draw from a wide range of fields spanni ...

**23** A mediation infrastructure for digital library services
Sergey Melnik, Hector Garcia-Molina, Andreas Paepcke
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**
Full text available: pdf(155.30 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital library mediators allow interoperation between diverse information services. In this

paper we describe a flexible and dynamic mediator infrastructure that allows mediators to be composed from a set of modules (``blades''). Each module implements a particular mediation function, such as protocol translation, query translation, or result merging. All the information used by the mediator, including the mediator logic itself, is represented by an RDF graph.We i ...

**Keywords**: component design, interoperability, mediator, wrapper

**24** Performance and cost tradeoffs in Web search

Nick Craswell, Francis Crimmins, David Hawking, Alistair Moffat

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27**

Full text available: pdf(153.92 KB) Additional Information: full citation, abstract, references

Web search engines crawl the web to fetch the data that they index. In this paper we re-examine that need, and evaluate the network costs associated with data acquisition, and alternative ways in which a search service might be supported. As a concrete example, we make use of the Research Finder search service provided at http://rf.panopticsearch.com, and information derived from its crawl and query logs. Based upon an analysis of the Research Finder system we introduce a hybrid arrangement, in ...

**Keywords**: Web crawling, World-Wide Web, information retrieval, metasearch, search engine

**25** Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

**Keywords**: HTML, Intranet, WWW, application, development

**26** Session 9A: applications in commerce: IntelliShopper: a proactive, personal, private shopping assistant

Filippo Menczer, W. Nick Street, Narayan Vishwakarma, Alvaro E. Monge, Markus Jakobsson

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Full text available: pdf(383.25 KB) Additional Information: full citation, abstract, references, index terms

The IntelliShopper is a shopping assistant designed to empower consumers. It is a personal assistant in that it observes the users while shopping and learns their preferences with respect to various features that characterize shopping items. It is proactive in that it remembers the users' requests and autonomously monitors vendor sites for new items that might match the users' needs and preferences. Finally, it protects users' privacy by means of pseudonymity, IP anony\-mizing, and trusted filte ...

**Keywords**: learning, monitoring, personalization, privacy, pro-activity, shopping

**27** Web-based specification and integration of legacy services
Ying Zou, Kostas Kontogiannis
November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(279.28 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

**28** Web site engineering: Enforcing strict model-view separation in template engines
Terence John Parr
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Full text available: pdf(118.03 KB) Additional Information: full citation, abstract, references, index terms

The mantra of every experienced web application developer is the same: *thou shalt separate business logic from display*. Ironically, almost all template engines allow violation of this separation principle, which is the very impetus for HTML template engine development. This situation is due mostly to a lack of formal definition of separation and fear that enforcing separation emasculates a template's power. I show that not only is strict separation a worthy design principle, but that we c ...

**Keywords**: model-view-controller, template engine, web application

**29** Locating and accessing data repositories with WebSemantics
George A. Mihaila, Louiqa Raschid, Anthony Tomasic
August 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 1
Full text available: pdf(130.61 KB) Additional Information: full citation, abstract, citings, index terms

Many collections of scientific data in particular disciplines are available today on the World Wide Web. Most of these data sources are compliant with some standard for interoperable access. In addition, sources may support a common semantics, i.e., a shared meaning for the data types and their domains. However, sharing data among a global community of users is still difficult because of the following reasons: (i) data providers need a mechanism for describing and publishing available sources of ...

**Keywords**: Data discovery, Data integration, Mediators, Query languages, World Wide Web, XML

**30** Digital libraries in the classroom: Integrating digital libraries into learning environments: the *LEBONED* approach
Frank Oldenettel, Michael Malachinski, Dennis Reil
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(299.24 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the project LEBONED that focuses on the integration of digital libraries and their contents into web-based learning environments. We describe in general how the architecture of a standard learning management system has to be modified to enable the integration of digital libraries. An important part of this modification is the LEBONED

Metadata Architecture which depicts the handling of metadata and documents imported from digital libraries. The main components of this architec ...

31 Database techniques for the World-Wide Web: a survey
Daniela Florescu, Alon Levy, Alberto Mendelzon
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3
Full text available: pdf(1.79 MB) Additional Information: full citation, citings, index terms

32 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Full text available: pdf(316.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords**: applications., definitions, foundations, taxonomy

33 Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3
Full text available: pdf(2.91 MB) Additional Information: full citation, index terms

34 Document adaptation: Lightweight integration of documents and services
Nkechi Nnadi, Michael Bieber
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**
Full text available: pdf(314.68 KB) Additional Information: full citation, abstract, references, index terms

This research's primary contribution is providing a relatively straightforward sustainable infrastructure for integrating documents and services. Users see a totally integrated environment. The integration infrastructure generates supplemental link anchors. Selecting one generates a list of relevant links automatically through the use of relationship rules.

**Keywords**: automatic link generation, metainformation, relationship rules, service integration

35 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

**36** Template-based wrappers in the TSIMMIS system

Joachim Hammer, Héctor García-Molina, Svetlozar Nestorov, Ramana Yerneni, Marcus Breunig, Vasilis Vassalos

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available: pdf(577.12 KB) Additional Information: full citation, abstract, references, citings, index terms

In order to access information from a variety of heterogeneous information sources, one has to be able to translate queries and data from one data model into another. This functionality is provided by so-called (source) wrappers [4,8] which convert queries into one or more commands/queries understandable by the underlying source and transform the native results into a format understood by the application. As part of the TSIMMIS project [1, 6] we have developed hard-coded wr ...

**37** A visual approach to multimedia querying and presentation

Isabel F. Cruz, Wendy T. Lucas

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(1.54 MB) Additional Information: full citation, references, citings, index terms

**38** The HyperDisco approach to open hypermedia systems

Uffe Kock Wiil, John J. Leggett

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available: pdf(1.07 MB) Additional Information: full citation, citings, index terms

**Keywords**: collaborative work, computation, data models, distribution, extensibility, heterogeneity, hyperbase management systems, hypermedia platforms, integration, inter-tool linking, interoperability, link services, open hypermedia systems, openness, scalability, system architectures

**39** Metadata for digital libraries: architecture and design rationale

Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

**Keywords**: CORBA, InfoBus, attrabute model translation, attribute model translation, digital libraries, heterogeneity, interoperability, metadata architecture, metadata repository, proxy architecture

**40** Coordinating Web Services based on business models

Koichi TERAI, Noriaki IZUMI, Takahira YAMAGUCHI

September 2003 **Proceedings of the 5th international conference on Electronic commerce**

Full text available: pdf(399.11 KB) Additional Information: full citation, abstract, references

Coordinating Web Services dynamically revolutionizes how each business collaborates for its performance improvement, so that many IT researchers are recently focusing on them. In

order to make the coordination really effective in business, we have to take viewpoints from business models. Though several specifications and approaches were proposed for the coordination, there are no clear relationships between them and business models yet. In this paper, we propose a framework for Web Services coor ...

**Keywords**: business application development, business model management, reuse of business model, web services coordination

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**1** Data extraction: Fully automatic wrapper generation for search engines

Hongkun Zhao, Weiyi Meng, Zonghuan Wu, Vijay Raghavan, Clement Yu

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(315.59 KB) Additional Information: full citation, abstract, references, index terms

When a query is submitted to a search engine, the search engine returns a dynamically generated result page containing the result records, each of which usually consists of a link to and/or snippet of a retrieved Web page. In addition, such a result page often also contains information irrelevant to the query, such as information related to the hosting site of the search engine and advertisements. In this paper, we present a technique for automatically producing wrappers that can be used to extr ...

**Keywords**: information extraction, search engine, wrapper generation

**2** SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe how we combined SDLIP and STARTS, two comple mentary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

**3** OAI application: Extending SDARTS: extracting metadata from web databases and interfacing with the open archives initiative

Panagiotis G. Ipeirotis, Tom Barry, Luis Gravano

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(303.33 KB) Additional Information: full citation, abstract, references, index terms

SDARTS is a protocol and toolkit designed to facilitate metasearching. SDARTS combines two complementary existing protocols, SDLIP and STARTS, to define a uniform interface that collections should support for searching and exporting metasearch-related metadata. SDARTS also includes a toolkit with wrappers that are easily customized to make both local

and remote document collections SDARTS-compliant. This paper describes two significant ways in which we have extended the SDARTS toolkit. First, we ...

**Keywords**: SDLIP, distributed searching, metadata, metasearching, web databases, wrapper construction

4 Towards context-based search engine selection
David B. Leake, Ryan Scherle
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Full text available: pdf(155.22 KB) Additional Information: full citation, abstract, references, citings, index terms

A well-known problem for web search is targeting search on information that satisfies users' information needs. User queries tend to be short, and hence often ambiguous, which can lead to inappropriate results from general-purpose search engines. This has led to a number of methods for narrowing queries by adding information. This paper presents an alternative approach that aims to improve query results by using knowledge of a user's current activities to select search engines relevant t ...

**Keywords**: distributed information systems, intelligent web search, just-in-time information access

5 A query based approach for integrating heterogeneous data sources
Ruxandra Domenig, Klaus R. Dittrich
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Full text available: pdf(213.15 KB) Additional Information: full citation, references, index terms

6 DEADLINER: building a new niche search engine
A. Kruger, C. L. Giles, F. M. Coetzee, E. Glover, G. W. Flake, S. Lawrence, C. Omlin
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Full text available: pdf(340.59 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: Bayesian fusion approaches, text extraction, web search

7 Performance and cost tradeoffs in Web search
Nick Craswell, Francis Crimmins, David Hawking, Alistair Moffat
January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27**
Full text available: pdf(153.92 KB) Additional Information: full citation, abstract, references

Web search engines crawl the web to fetch the data that they index. In this paper we re-examine that need, and evaluate the network costs associated with data acquisition, and alternative ways in which a search service might be supported. As a concrete example, we make use of the Research Finder search service provided at http://rf.panopticsearch.com, and information derived from its crawl and query logs. Based upon an analysis of the Research Finder system we introduce a hybrid arrangement, in ...

**Keywords**: Web crawling, World-Wide Web, information retrieval, metasearch, search engine

8 Posters: Testbed for information extraction from deep web
Yasuhiro Yamada, Nick Craswell, Tetsuya Nakatoh, Sachio Hirokawa
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Full text available: pdf(24.74 KB) Additional Information: full citation, abstract, references, index terms

Search results generated by searchable databases are served dynamically and far larger than the static documents on the Web. These results pages have been referred to as the Deep Web. We need to extract the target data in results pages to integrate them on different searchable databases. We propose a test bed for information extraction from search results. We chose 100 databases randomly from 114,540 pages with search forms. Therefore, these databases have a good variety. We selected 51 database ...

**Keywords**: deep web, meta search, testbed, wrapper

9 Optimizing recall/precision scores in IR over the WWW
Matthew Montebello
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(296.25 KB) Additional Information: full citation, references, citings, index terms

10 An overview and classification of mediated query systems
Ruxandra Domenig, Klaus R. Dittrich
September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3
Full text available: pdf(897.64 KB) Additional Information: full citation, abstract, citings, index terms

Multimedia technology, global information infrastructures and other developments allow users to access more and more information sources of various types. However, the "technical" availability alone (by means of networks, WWW, mail systems, databases, etc.) is not sufficient for making meaningful and advanced use of all information available on-line. Therefore, the problem of effectively and efficiently accessing and querying heterogeneous and distributed data sources is an impo ...

11 Session 9A: applications in commerce: IntelliShopper: a proactive, personal, private shopping assistant
Filippo Menczer, W. Nick Street, Narayan Vishwakarma, Alvaro E. Monge, Markus Jakobsson
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**
Full text available: pdf(383.25 KB) Additional Information: full citation, abstract, references, index terms

The IntelliShopper is a shopping assistant designed to empower consumers. It is a personal assistant in that it observes the users while shopping and learns their preferences with respect to various features that characterize shopping items. It is proactive in that it remembers the users' requests and autonomously monitors vendor sites for new items that might match the users' needs and preferences. Finally, it protects users' privacy by means of pseudonymity, IP anony\-mizing, and trusted filte ...

**Keywords**: learning, monitoring, personalization, privacy, pro-activity, shopping

**12** Programming by example: programming by demonstration for information agents
Mathias Bauer, Dietmar Dengler, Gabriele Paul, Markus Meyer
March 2000 **Communications of the ACM**, Volume 43 Issue 3

Full text available: pdf(391.87 KB) html(27.47 KB) Additional Information: full citation, references, index terms

**13** PERSIVAL, a system for personalized search and summarization over multimedia healthcare information
Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

**Keywords**: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

**14** QProber: A system for automatic classification of hidden-Web databases
Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(3.62 MB) Additional Information: full citation, abstract, references, citings, index terms

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

**Keywords**: Database classification, Web databases, hidden Web

**15** Internet data management (IDM): Learning query languages of Web interfaces
André Bergholz, Boris Chidlovskii
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(253.16 KB) Additional Information: full citation, abstract, references

This paper studies the problem of automatic acquisition of the query languages supported by a Web information resource. We describe a system that automatically probes the search interface of a resource with a set of test queries and analyses the returned pages to recognize supported query operators. The automatic acquisition assumes the availability of the number of matches the resource returns for a submitted query. The match numbers are used to train a learning system and to generate classific ...

**Keywords**: hidden Web, learning, query operators, search interface

**16** Probe, count, and classify: categorizing hidden web databases
Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2
Full text available: pdf(389.34 KB) Additional Information: full citation, abstract, references, citings, index terms

The contents of many valuable web-accessible databases are only accessible through search interfaces and are hence invisible to traditional web "crawlers." Recent studies have estimated the size of this "hidden web" to be 500 billion pages, while the size of the "crawlable" web is only an estimated two billion pages. Recently, commercial web sites have started to manually organize web-accessible databases into Yahoo!-like hierarchical classification schemes ...

**17** OminiSearch: a method for searching dynamic content on the Web
David Buttler, Ling Liu, Calton Pu, Henrique Paques, Wei Han, Wei Tang
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2
Full text available: pdf(38.25 KB) Additional Information: full citation, index terms

**18** Concept-based querying in mediator systems
Kai-Uwe Sattler, Ingolf Geist, Eike Schallehn
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1
Full text available: pdf(329.34 KB) Additional Information: full citation, abstract

One approach to overcoming heterogeneity as a part of data integration in mediator systems is the use of metadata in the form of a vocabulary or ontology to represent domain knowledge explicitly. This requires including this meta level during query formulation and processing. In this paper, we address this problem in the context of a mediator that uses a concept-based integration model and an extension of the XQuery language called CQuery. This mediator has been developed as part of a project fo ...

**Keywords**: Data integration, Mediator systems, Query processing

**19** Predicate rewriting for translating Boolean queries in a heterogeneous information system
Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke
January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1
Full text available: pdf(350.96 KB) Additional Information: full citation, abstract, references, citings, index terms

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each user query and target source, we transform the user query into a subsuming query that can be supported by the source but that may return extra documents. The results are then processed by a filter query to yield the correct final results. In this article we introduce the architectur ...

**Keywords**: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

**20** Semantic caching of Web queries

Boris Chidlovskii, Uwe M. Borghoff

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(235.09 KB) Additional Information: full citation, abstract, citings, index terms

In meta-searchers accessing distributed Web-based information repositories, performance is a major issue. Efficient query processing requires an appropriate caching mechanism. Unfortunately, standard page-based as well as tuple-based caching mechanisms designed for conventional databases are not efficient on the Web, where keyword-based querying is often the only way to retrieve data. In this work, we study the problem of semantic caching of Web queries and develop a caching mechanism for conjun ...

**Keywords**: Experiments, Query algorithms, Region containment, Semantic caching, Signature files

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**21** Editorial: special issue on web content mining
Bing Liu, Kevin Chen-Chuan-Chang
December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2
Full text available: pdf(178.32 KB) Additional Information: full citation, abstract, references

With the phenomenal growth of the Web, there is an everincreasing volume of data and information published in numerous Web pages. The research in Web mining aims to develop new techniques to effectively extract and mine useful knowledge or information from these Web pages [8]. Due to the heterogeneity and lack of structure of Web data, automated discovery of targeted or unexpected knowledge/information is a challenging task. It calls for novel methods that draw from a wide range of fields spanni ...

**22** XLibris: an automated library research assistant
Andrew Crossen, Jay Budzik, Mason Warner, Larry Birnbaum, Kristian J. Hammond
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Full text available: pdf(209.48 KB) Additional Information: full citation, abstract, references, citings, index terms

While recent work has focused on providing tools and infrastructure for users to access electronic information over the Internet, the relationship between the physical world and information available online has been relatively unexplored. Information about a user's location, and the objects she interacts with, can be sufficient to recognize enough of the user's task to drive retrieval of online information relevant to the task at hand. The XLibris system automatically retrieves, aggregates ...

**Keywords**: automated retrieval, information aggregation, metasearch, ubiquitous computing

**23** Mediators over taxonomy-based information sources
Yannis Tzitzikas, Nicolas Spyratos, Panos Constantopoulos
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1
Full text available: pdf(428.09 KB) Additional Information: full citation, abstract

We propose a mediator model for providing integrated and unified access to multiple taxonomy-based sources. Each source comprises a taxonomy and a database that indexes objects under the terms of the taxonomy. A mediator comprises a taxonomy and a set of

relations between the mediator's and the sources' terms, called articulations. By combining different modes of query evaluation at the sources and the mediator and different types of query translation, a flexible, efficient scheme ...

**Keywords**: Approximate query translation, Information integration, Mediators, Taxonomies

**24** Document adaptation: Lightweight integration of documents and services



Nkechi Nnadi, Michael Bieber
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(314.68 KB) Additional Information: full citation, abstract, references, index terms

This research's primary contribution is providing a relatively straightforward sustainable infrastructure for integrating documents and services. Users see a totally integrated environment. The integration infrastructure generates supplemental link anchors. Selecting one generates a list of relevant links automatically through the use of relationship rules.

**Keywords**: automatic link generation, metainformation, relationship rules, service integration

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**1** Data extraction: Fully automatic wrapper generation for search engines

Hongkun Zhao, Weiyi Meng, Zonghuan Wu, Vijay Raghavan, Clement Yu

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(315.59 KB) Additional Information: full citation, abstract, references, index terms

When a query is submitted to a search engine, the search engine returns a dynamically generated result page containing the result records, each of which usually consists of a link to and/or snippet of a retrieved Web page. In addition, such a result page often also contains information irrelevant to the query, such as information related to the hosting site of the search engine and advertisements. In this paper, we present a technique for automatically producing wrappers that can be used to extr ...

**Keywords**: information extraction, search engine, wrapper generation

**2** SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe how we combined SDLIP and STARTS, two comple mentary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

**3** Session 9A: applications in commerce: IntelliShopper: a proactive, personal, private shopping assistant

Filippo Menczer, W. Nick Street, Narayan Vishwakarma, Alvaro E. Monge, Markus Jakobsson

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Full text available: pdf(383.25 KB) Additional Information: full citation, abstract, references, index terms

The IntelliShopper is a shopping assistant designed to empower consumers. It is a personal assistant in that it observes the users while shopping and learns their preferences with respect to various features that characterize shopping items. It is proactive in that it

remembers the users' requests and autonomously monitors vendor sites for new items that might match the users' needs and preferences. Finally, it protects users' privacy by means of pseudonymity, IP anony\-mizing, and trusted filte ...

**Keywords**: learning, monitoring, personalization, privacy, pro-activity, shopping

4 An overview and classification of mediated query systems

Ruxandra Domenig, Klaus R. Dittrich

September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3

Full text available: pdf(897.64 KB) Additional Information: full citation, abstract, citings, index terms

Multimedia technology, global information infrastructures and other developments allow users to access more and more information sources of various types. However, the "technical" availability alone (by means of networks, WWW, mail systems, databases, etc.) is not sufficient for making meaningful and advanced use of all information available on-line. Therefore, the problem of effectively and efficiently accessing and querying heterogeneous and distributed data sources is an impo ...

5 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

**Keywords**: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

6 A query based approach for integrating heterogeneous data sources

Ruxandra Domenig, Klaus R. Dittrich

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available: pdf(213.15 KB) Additional Information: full citation, references, index terms

7 Performance and cost tradeoffs in Web search

Nick Craswell, Francis Crimmins, David Hawking, Alistair Moffat

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27**

Full text available: pdf(153.92 KB) Additional Information: full citation, abstract, references

Web search engines crawl the web to fetch the data that they index. In this paper we re-examine that need, and evaluate the network costs associated with data acquisition, and alternative ways in which a search service might be supported. As a concrete example, we

make use of the Research Finder search service provided at http://rf.panopticsearch.com, and information derived from its crawl and query logs. Based upon an analysis of the Research Finder system we introduce a hybrid arrangement, in ...

**Keywords**: Web crawling, World-Wide Web, information retrieval, metasearch, search engine

8 Posters: Testbed for information extraction from deep web
Yasuhiro Yamada, Nick Craswell, Tetsuya Nakatoh, Sachio Hirokawa
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Full text available: pdf(24.74 KB) Additional Information: full citation, abstract, references, index terms

Search results generated by searchable databases are served dynamically and far larger than the static documents on the Web. These results pages have been referred to as the Deep Web. We need to extract the target data in results pages to integrate them on different searchable databases. We propose a test bed for information extraction from search results. We chose 100 databases randomly from 114,540 pages with search forms. Therefore, these databases have a good variety. We selected 51 database ...

**Keywords**: deep web, meta search, testbed, wrapper

9 Mediators over taxonomy-based information sources
Yannis Tzitzikas, Nicolas Spyratos, Panos Constantopoulos
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1
Full text available: pdf(428.09 KB) Additional Information: full citation, abstract

We propose a mediator model for providing integrated and unified access to multiple taxonomy-based sources. Each source comprises a taxonomy and a database that indexes objects under the terms of the taxonomy. A mediator comprises a taxonomy and a set of relations between the mediator's and the sources' terms, called articulations. By combining different modes of query evaluation at the sources and the mediator and different types of query translation, a flexible, efficient scheme ...

**Keywords**: Approximate query translation, Information integration, Mediators, Taxonomies

10 Internet data management (IDM): Learning query languages of Web interfaces
André Bergholz, Boris Chidlovskii
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Full text available: pdf(253.16 KB) Additional Information: full citation, abstract, references

This paper studies the problem of automatic acquisition of the query languages supported by a Web information resource. We describe a system that automatically probes the search interface of a resource with a set of test queries and analyses the returned pages to recognize supported query operators. The automatic acquisition assumes the availability of the number of matches the resource returns for a submitted query. The match numbers are used to train a learning system and to generate classific ...

**Keywords**: hidden Web, learning, query operators, search interface

11 Predicate rewriting for translating Boolean queries in a heterogeneous information

system
Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke
January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1

Full text available: pdf(350.96 KB) Additional Information: full citation, abstract, references, citings, index terms

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each user query and target source, we transform the user query into a subsuming query that can be supported by the source but that may return extra documents. The results are then processed by a filter query to yield the correct final results. In this article we introduce the architectur ...

**Keywords**: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

12 DEADLINER: building a new niche search engine
A. Kruger, C. L. Giles, F. M. Coetzee, E. Glover, G. W. Flake, S. Lawrence, C. Omlin
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available: pdf(340.59 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: Bayesian fusion approaches, text extraction, web search

13 Semantic caching of Web queries
Boris Chidlovskii, Uwe M. Borghoff
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(235.09 KB) Additional Information: full citation, abstract, citings, index terms

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**Keywords**: Experiments, Query algorithms, Region containment, Semantic caching, Signature files

14 Optimizing recall/precision scores in IR over the WWW
Matthew Montebello
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(296.25 KB) Additional Information: full citation, references, citings, index terms

15 OminiSearch: a method for searching dynamic content on the Web
David Buttler, Ling Liu, Calton Pu, Henrique Paques, Wei Han, Wei Tang
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(38.25 KB) Additional Information: full citation, index terms

16 Document adaptation: Lightweight integration of documents and services
Nkechi Nnadi, Michael Bieber
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(314.68 KB) Additional Information: full citation, abstract, references, index terms

This research's primary contribution is providing a relatively straightforward sustainable infrastructure for integrating documents and services. Users see a totally integrated environment. The integration infrastructure generates supplemental link anchors. Selecting one generates a list of relevant links automatically through the use of relationship rules.

**Keywords**: automatic link generation, metainformation, relationship rules, service integration

17 Designing wrapper components for e-services in integrating heterogeneous systems
Massimo Mecella, Barbara Pernici
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: pdf(292.68 KB) Additional Information: full citation, abstract, citings, index terms

Component-based approaches are becoming more and more popular to support Internet-based application development. Different component modeling approaches, however, can be adopted, obtaining different abstraction levels (either conceptual or operational). In this paper we present a component-based architecture for the design of e-applications, and discuss the concept of wrapper components as building blocks for the development of e-services, where these services are based on legacy systems. We dis ...

**Keywords**: Component, Cooperation, Integration, Legacy system, Wrapper, e-application, e-service

18 Technical papers: formal methods II: A compositional formalization of connector wrappers
Bridget Spitznagel, David Garlan
May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available: pdf(1.11 MB) Publisher Site Additional Information: full citation, abstract, references, index terms

Increasingly systems are composed of parts: software components, and the interaction mechanisms (connectors) that enable them to communicate. When assembling systems from independently developed and potentially mismatched parts, wrappers may be used to overcome mismatch as well as to remedy extra-functional defciencies.Unfortunately the current practice of wrapper creation and use is ad hoc, resulting in artifacts that are often hard to reuse or compose, and whose impact is diffcult to analyze. ...

19 Generating wrappers for command line programs: the Cal-Aggie Wrap-O-Matic project
Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu
July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available: pdf(138.41 KB) Additional Information: full citation, abstract, references, citings, index

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*Software developers writing new software have strong incentives to make their products compliant to standards such as* CORBA, COM, *and Java Beans. Standards-compliance facilitates inter-operability, component-based software assembly, and software reuse, thus leading to improved quality and productivity. Legacy software, on the other hand, is usually monolithic, and hard to maintain and adapt. Many organizations, saddled with entrenched legacy software, are confronted with the need to ...*

**20** Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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1 SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

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2 Concept-based querying in mediator systems

Kai-Uwe Sattler, Ingolf Geist, Eike Schallehn

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Full text available: pdf(329.34 KB) Additional Information: full citation, abstract

One approach to overcoming heterogeneity as a part of data integration in mediator systems is the use of metadata in the form of a vocabulary or ontology to represent domain knowledge explicitly. This requires including this meta level during query formulation and processing. In this paper, we address this problem in the context of a mediator that uses a concept-based integration model and an extension of the XQuery language called CQuery. This mediator has been developed as part of a project fo ...

**Keywords**: Data integration, Mediator systems, Query processing

3 An overview and classification of mediated query systems

Ruxandra Domenig, Klaus R. Dittrich

September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3

Full text available: pdf(897.64 KB) Additional Information: full citation, abstract, citings, index terms

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4 A query based approach for integrating heterogeneous data sources
Ruxandra Domenig, Klaus R. Dittrich
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
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**Keywords**: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

6 PERSIVAL, a system for personalized search and summarization over multimedia healthcare information
Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(369.13 KB) Additional Information: full citation, abstract, references, citings, index terms

In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

**Keywords**: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

7 Mediators over taxonomy-based information sources
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Full text available: pdf(428.09 KB) Additional Information: full citation, abstract

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**Keywords**: Approximate query translation, Information integration, Mediators, Taxonomies

8 OAI application: Extending SDARTS: extracting metadata from web databases and interfacing with the open archives initiative

Panagiotis G. Ipeirotis, Tom Barry, Luis Gravano

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(303.33 KB) Additional Information: full citation, abstract, references, index terms

SDARTS is a protocol and toolkit designed to facilitate metasearching. SDARTS combines two complementary existing protocols, SDLIP and STARTS, to define a uniform interface that collections should support for searching and exporting metasearch-related metadata. SDARTS also includes a toolkit with wrappers that are easily customized to make both local and remote document collections SDARTS-compliant. This paper describes two significant ways in which we have extended the SDARTS toolkit. First, we ...

**Keywords**: SDLIP, distributed searching, metadata, metasearching, web databases, wrapper construction

9 QProber: A system for automatic classification of hidden-Web databases

Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(3.62 MB) Additional Information: full citation, abstract, references, citings, index terms

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

**Keywords**: Database classification, Web databases, hidden Web

10 Data extraction: Fully automatic wrapper generation for search engines

Hongkun Zhao, Weiyi Meng, Zonghuan Wu, Vijay Raghavan, Clement Yu

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(315.59 KB) Additional Information: full citation, abstract, references, index terms

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**Keywords**: information extraction, search engine, wrapper generation

**11** XLibris: an automated library research assistant

Andrew Crossen, Jay Budzik, Mason Warner, Larry Birnbaum, Kristian J. Hammond

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Full text available: pdf(209.48 KB) Additional Information: full citation, abstract, references, citings, index terms

While recent work has focused on providing tools and infrastructure for users to access electronic information over the Internet, the relationship between the physical world and information available online has been relatively unexplored. Information about a user's location, and the objects she interacts with, can be sufficient to recognize enough of the user's task to drive retrieval of online information relevant to the task at hand. The XLibris system automatically retrieves, aggregates ...

**Keywords**: automated retrieval, information aggregation, metasearch, ubiquitous computing

**12** Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

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**13** The state of the art in distributed query processing

Donald Kossmann

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available: pdf(455.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

**Keywords**: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

**14** PRIME—toward process-integrated modeling environments: 1

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf Klamma

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research in process-centered environments (PCEs) has focused on project management support and has neglected method guidance for the engineers performing the (software) engineering process. It has been dominated by the search for suitable process-modeling languages and enactment mechanisms. The consequences of process orientation on the computer-based engineering environments, i.e., the interactive tools used during process performance, have been studied much less. In this article, we prese ...

**Keywords**: PRIME, method guidance, process modeling, process-centered environments, process-integrated environments, process-sensitive tools, tool integration, tool modeling

**15** Programming languages and object technologies: Automated assembly of software components based on XML-coded instructions

Ian Nunn, Dwight Deugo

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(476.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Many approaches to reducing the cost, complexity and development time of software applications have been explored. Several techniques, most recently the Object Oriented paradigm, have been developed to facilitate the reuse of code. Even when these techniques employ the notion of components, they do so only in a limited way within the language's environment at development time. Within the field of Software Engineering, the study of Software Architecture has emerged to provide language support for ...

**Keywords**: XML, architecture definition language, component, software architecture, software components

**16** Semantic caching of Web queries

Boris Chidlovskii, Uwe M. Borghoff

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(235.09 KB) Additional Information: full citation, abstract, citings, index terms

In meta-searchers accessing distributed Web-based information repositories, performance is a major issue. Efficient query processing requires an appropriate caching mechanism. Unfortunately, standard page-based as well as tuple-based caching mechanisms designed for conventional databases are not efficient on the Web, where keyword-based querying is often the only way to retrieve data. In this work, we study the problem of semantic caching of Web queries and develop a caching mechanism for conjun ...

**Keywords**: Experiments, Query algorithms, Region containment, Semantic caching, Signature files

**17** The use of mediation and ontology technologies for software component information retrieval

Regina M. M. Braga, Marta Mattoso, Cláudia M. L. Werner

May 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context**, Volume 26 Issue 3

Full text available: pdf(271.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Component Based Developed aims at constructing software through the inter-relationship between pre-existing components. However, these components should be bound to a

specific application domain in order to be effectively reused. Reusable domain components and Their related documentation are usually stored in a great variety of data sources. Thus, a possible solution for accessing this information is to use a software layer that integrates different component information sources. We presen ...

**Keywords**: component based engineering, component repositories, domain engineering, software classification and identification

**18** ObjectGlobe: Ubiquitous query processing on the Internet



R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: pdf(251.44 KB) Additional Information: full citation, abstract, citings, index terms

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

**Keywords**: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

**19** Integrating and customizing heterogeneous e-commerce applications



Anat Eyal, Tova Milo

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: pdf(286.63 KB) Additional Information: full citation, abstract, citings, index terms

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

**Keywords**: Application integration, Data integration, Electronic commerce

**20** Business-to-business interactions: issues and enabling technologies



B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

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Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

**Keywords**: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

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# Template-based wrappers in the TSIMMIS system

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## ABSTRACT

In order to access information from a variety of heterogeneous information sources, one has to be able to translate queries and data from one data model into another. This functionality is provided by so-called (source) wrappers [4,8] which convert queries into one or more commands/queries understandable by the underlying source and transform the native results into a format understood by the application. As part of the TSIMMIS project [1, 6] we have developed hard-coded wrappers for a variety of sources (e.g., Sybase DBMS, WWW pages, etc.) including legacy systems (Folio). However, anyone who has built a wrapper before can attest that a lot of effort goes into developing and writing such a wrapper. In situations where it is important or desirable to gain access to new sources quickly, this is a major drawback. Furthermore, we have also observed that only a relatively small part of the code deals with the specific access details of the source. The rest of the code is either common among wrappers or implements query and data transformation that could be expressed in a high level, declarative fashion. Based on these observations, we have developed a wrapper implementation toolkit [7] for quickly building wrappers. The toolkit contains a library for commonly used functions, such as for receiving queries from the application and packaging results. It also contains a facility for translating queries into source-specific commands, and for translating results into a model useful to the application. The philosophy behind our "template-based" translation methodology is as follows. The wrapper implementor specifies a set of templates (rules) written in a high level declarative language that describe the queries accepted by the wrapper as well as the

objects that it returns. If an application query matches a template, an implementor-provided action associated with the template is executed to provide the native query for the underlying source1. When the source returns the result of the query, the wrapper transforms the answer which is represented in the data model of the source into a representation that is used by the application. Using this toolkit one can quickly design a simple wrapper with a few templates that cover some of the desired functionality, probably the one that is most urgently needed. However, templates can be added gradually as more functionality is required later on. Another important use of wrappers is in extending the query capabilities of a source. For instance, some sources may not be capable of answering queries that have multiple predicates. In such cases, it is necessary to pose a native query to such a source using only predicates that the source is capable of handling. The rest of the predicates are automatically separated from the user query and form a filter query. When the wrapper receives the results, a post-processing engine applies the filter query. This engine supports a set of built-in predicates based on the comparison operators =,≠,<,>, etc. In addition, the engine supports more complex predicates that can be specified as part of the filter query. The postprocessing engine is common to wrappers of all sources and is part of the wrapper toolkit. Note that because of postprocessing, the wrapper can handle a much larger class of queries than those that exactly match the templates it has been given. Figure 1 shows an overview of the wrapper architecture as it is currently implemented in our TSIMMIS testbed. Shaded components are provided by the toolkit, the white component is source-specific and must be generated by the implementor. The driver component controls the translation process and invokes the following services: the parser which parses the templates, the native schema, as well as the incoming queries into internal data structures, the matcher which matches a query against the set of templates and creates a filter query for postprocessing if necessary, the native component which submits the generated action string to the source, and extracts the data from the native result using the information given in the source schema, and the engine, which transforms and packages the result and applies a postprocessing filter if one has been created by the matcher. We now describe the sequence of events that occur at the wrapper during the translation of a query and its result using an example from our prototype system. The queries are formulated using a rule-based language called MSL that has been developed as a template specification and query language for the TSIMMIS project. Data is represented using our Object Exchange Model (OEM). We will briefly describe MSL and OEM in the next section. Details on MSL can be found in [5], a full introduction to OEM is given in [1].

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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## ↑ INDEX TERMS

**Primary Classification:**

**H.** Information Systems

↳ **H.2** DATABASE MANAGEMENT

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